

# **Electronic Shelf Label**

# **SPECIFICATION**

Product Name:	2.9 inch Electronic Shelf Label	
Model:	SETR0290 series	
	296x128 Pixels	
Description:	Based on Cloud Platform(optional)	
•	Communication band 433/868/915 MHz	

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REV	DESCRIPTION	RELEASE DATE	EDITOR
2.0	Preliminary Release	2017/3/1	Ning



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### 1. General Description

SERTAG's platform is a complete hardware-software system combining 433Mhz wireless communication and ESL tags, in-store navigation, ultra-low power displays, merchandising supports and tools and server infrastructure (cloud, distributed or in- store). SERTAG's platform is open to the third-party technologies and enables interconnection with any situation software or system. It offers the flexibility you need to anticipate and overcome any challenge.

SETR0290 series ESL tags with high definition displays can be adapted to any sales scenarios. It supports text, promotion, QR code or barcode and can be reused with no paper required. It can be used for different application, such as the retails, warehouses and logistics management etc.

#### 2. Feature

Black/white color or Black/white/red or Black/white/yellow colors are available Cloud or local Server based options.

Communication band is 433/868/915 MHz

E-Paper displays,296x128 pixels full graphic.

Perfect for the retails, warehouses and logistics management.



## 3. Specification

### 3.1 2.90 inch Electronic Shelf Label







### **■** Feature

NO.	ITEM	DATA	
1	Part NO.	SET0290N/R/Y	
2	Outline	89mm(H) ×45mm(V) ×13.5mm(D)	
3	Weight	44g	
4	Color Display	Black、White/Red/Yellow	
5	Display Size	2.90 inch	
6	Display Resolution	296(H) × 128(V)	
8	Communication Band	433MHz/868 MHz /915 MHz	
9	Communication Protocol	ETAG-TECH Protocol	
10	Response Time	9S(Configurable)	
11	Battery Life	Not less than 5 years, Replaceable	
12	Battery	CR2450*2	
13	Operating temperature	0~50°C	
14	Storage temperature	-10~60°C	
15	Operating humidity	Less 75%	
16	Operating Voltage	2.4V~3.6V	

## ■ Function

NO.	ITEM	DESCRIBE	
1	Image transmission	Support full screen image wireless transmission, display the complete image data.	
2	Partial image transmission	Support local small picture wireless transmission, update display partial image	
3	Chinese character, English, symbol font	sh, The tag integrates Unicode encoding more than 27000 Chinese character font, English and symbol font library, and supports coding format wireless	



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		transmission.	
4	Partial text	Support partial areas to update text, numbers, symbols	
5	Frequency hopping anti- jamming	System concurrency and anti-interference through this function	
6	Batch processing mode	This mode can achieve 10 seconds update the 100 tags of the high-speed	
Ü	processing mode	update function, depending on the customer system.	
7	Temperature detection	Each tag supports temperature sampling, and the system can be read.	
8	Electric quantity detection	<ul> <li>Each tag supports the power sampling function. The system can be read, depending on the client system</li> <li>Low power alarm, the label displays the low power sign in the touch area when it is out of power, and the system background prompts.</li> </ul>	
9	LED light flicker setting	<ul> <li>Support 3 color independent control lights</li> <li>Each light flashing frequency is 1 times per second</li> <li>Each LED supports the number of flashing lights users can set</li> </ul>	
10	Storage page	Support to save 4 display pages	

#### ■ Functional description of tag font library coding format

The tag can realize user defined display template. The display capability is as follows:

- Support Chinese characters coding to Unicode, which can display more than 27000 Chinese characters, and support arbitrary areas to display 12 (H) \* 12 (V), 16 (H) \* 16 (V), 24 (H) \* 24 (V), 32 (H) \* 32 (V), 48 (H) \* 32 (V), 64 (H) \* 32 (V)
- The support character code is Unicode, which can display 96 numbers, letters and symbols of the 0x0020~0x007F interval, and support the dot matrix characters that display 7 (H) \* 5 (V), 12 point unequal width, 16 point unequal width, 24 point unequal width and 32 point unequal width in any area.
- Support the display of battery power symbols in any area.
- Support any position to draw arbitrary length horizontal and vertical lines.
- It supports the anti color display function of Chinese characters, characters, horizontal lines and vertical lines.
- Support any area to display EAN13 and Code128-B standards (refer to national standard "GB/T 18347-2001") bar code, EAN13 standard size 26 (H) x 113 (V), Code128 standard size 20 (H), and two bar codes that support doubling, removing numbers, arbitrarily designated height (more than 16 rows).
- It supports the display of dot matrix images in any area. The dot matrix image supports 1 times the magnification function, and the dot matrix image can be extended to full screen dot matrix.



# 3.2 Base station /Access Point(AP)



ltem	Specification
Model	SETAP01R1
Communication	433Mhz
Number of EGateway1C Cover	Each covers> 500 ESLs
Covered distance	30m-50m (Radius)
Size	120mm(V) *120mm(H)*30mm(D)
Working Temperature	-10°C ~ + 55°C
Power supply	DC +5.0V
Port to Server	Ethernet cable/RJ45
Installation way	Screw
Weight	350g

# 3.3 Shelf Rail and Dismounting tool









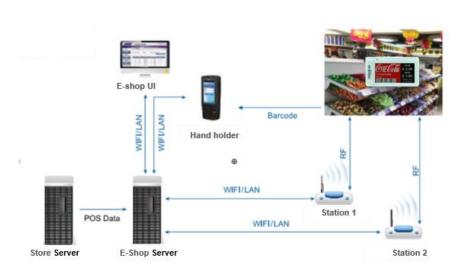
### 4. Product Series

Specification	Front Image	Back Image
Model: SETR0290N  Frame Color: White  Pixel Color: Black, White	[MN OR 10060] Chuck Taylor ALL Star Care 183 STALE 194 TOOLOGE RANGE 195 STALE 195 STA	
Model: SETR0290R  Frame Color: White Pixel Color: Black, White, Red	Nike Air Huarache Drift BR fen is sport is shoes Color-Rediffer/Flux State (20.15) and (10.15)  \$ 25	
Model: SETR0290Y  Frame Color: White Pixel Color: Black, White, Yellow	Alibaba  France one 1.1 and odd bid stress  Communication and Company  Section 1.1 and odd bid stress  Section 1.1 and odd bid	

### 5. Network structure

There are two types of network structure for SERTAG Label system. It is cloud network version and the single store version. They connected through wireless communication between the ESLs and the base stations(AP) and it is easy to refresh all the display content.





### 6. Why Select SERTAG Label

#### Advantages **Pictures ESL Cloud** ESL Cloud system is a cloud server based complete solution with hardware and auto-updating software. • All ESL tags can be controlled BIG DATA BLE CLOUD anytime and anywhere with cloudserver. All data can be shared on the cloud. CENTRAL CLOUD CONTROL SERVER API interface We can provide API interface to the third-party, whom can strengthen management ability by embedding our ESL into their own system, and providing more

powerful, flexible and competitive solution to

end customers.



#### Superior readability

- High Contrast: Use E-paper display with black and red on 'paper-white' background.
- Near 180° viewing angle with excellent readability, compare to CH LCD ESL:

202.		
	SERTAG Label	CH-LCD ESL
Viewing angle	Near 180°	120°
Contrast Ratio	20:1	8:1



#### Custom-made Template design

- It's easy to edit and create display templates.
- You can use any font in your system. It also enable any combination of text and images including QR code, Barcode, logos, pictures, etc.
- Negative explicit mode and special symbols are available.



#### Versatility

- ESLs available in a range of different sizes and specifications to suit all requirements across an entire retail estate.
- It can be customized with many functions to enhance customers' experience.

